SENTRY US

ECO SERIES

HDVDX42-4AVF

HD SDI 1080P ICR OSD 42 IR Vandal Dome Camera

Optional Bracket
MB-4VD

USER MANUAL

FEATURES

- SDI 1080P - **1920 x 1080**, 30fps, 2.0 Megapixel
- 1/2.8" 2.0 Megapixel Progressive Scan CMOS
- 3.3mm~12mm Auto Iris Vari-focal Lens
- 1.0 Lux @ F1.2
- 42 IR LED
- IR distance up to 100ft / 30m
- 600mA max
- 12V DC
- IP66 Rating

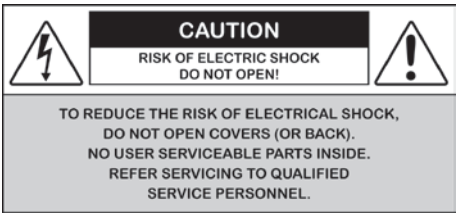
⚠ ***Please read the Manual before attempting to use this product.***
Specifications and appearance are subject to change without notice.

FC CE RoHS

HDC-32

Copyright © 2013. All Rights Reserved.

R201312-V04


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN!
TO REDUCE THE RISK OF ELECTRICAL SHOCK,
DO NOT OPEN COVERS (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED
SERVICE PERSONNEL.

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems.)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

CAUTION

1. Never point the camera toward the sun
Do not expose the lens directly to the sun or to strong light as this may damage the pick-up device.

2. Handle this camera with care
Avoid any shock or bumping of the camera. Improper handling could damage the camera.

3. Requires a proper operating environment
This camera is designed for outdoor or indoor use. The allowable temperature range for operation of this camera is between -4°F ~ 140°F / -20°C ~ 60°C.

4. Clean the front face or lens
It is recommended that the surface be cleaned every 3~6 months. Cleaning should be done by using a chamois, a very fine soft cloth, lens tissue, or cotton tipped applicator and ethanol to carefully remove any fingerprint or dust.

5. Check the power source voltage
The power source voltage should be within the specified range. (Camera must meet the specifications). Camera must be connected to a surge protector at all times.

6. Objects and liquid entry
Never push objects of any kind into this camera as this may touch dangerous voltage points of short out parts that could result in a fire or electric shock. Never spill any kind of liquid on the video product.

7. Servicing
Do not attempt to service this video product by yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all service to qualified servicing personnel.

8. Damage requiring service
Unplug this video product from the wall outlet and refer service to qualified servicing personnel under the following conditions:

a. When the power supply cord or plug is damaged.
b. If liquid has been spilled, or objects have fallen into the video product.
c. If the video product has been exposed to rain or water.
d. If the video product has been dropped or the cabinet has been damaged.
e. When the video product exhibits a distinct change in performance.

LIMITED WARRANTY

Sentry US products are covered under warranty for one (1) years from the date of purchase. The warranty will automatically be voided if any of the following occurs:

1. Camera sticker is removed
If the camera sticker is removed, we will not be able to confirm any information regarding when and where the product was purchased. We have no other way to verify the purchase record without the serial number on the camera sticker; therefore, it should not be removed.

2. Camera is modified in any way
If the camera is scratched, damaged, or modified in a manner not described in this manual, the warranty will be voided immediately. It is the customer's responsibility to keep the camera in good condition.

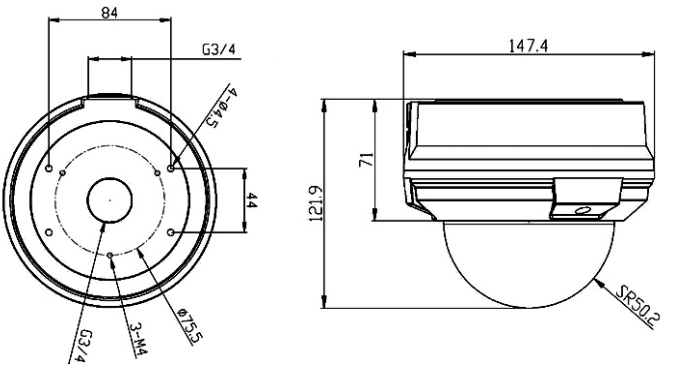
3. Video or power cable is cut
The video cable and the power cable should not be tampered with. Cutting or modifying of the cables will result in termination of the warranty.

PACKAGE CONTENTS

1. One (1) HDVDX42-4AVF Camera
2. One (1) Mounting Screw
3. One (1) Wall Anchor
4. One (1) User Manual

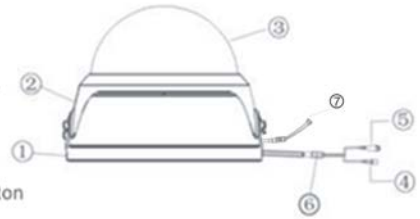
* For any returns, please include all components listed above with original packaging in **Resalable Condition**. **Absolutely No Returns** will be accepted if any component is missing/damaged.

DIMENSIONS (Unit: mm)

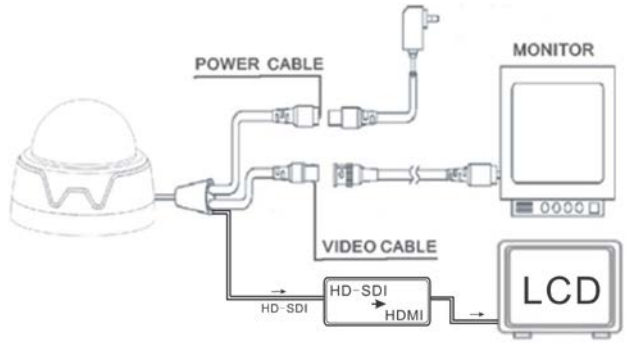


PARTS AND FUNCTIONS

1. Mount
2. Shell
3. Transparent cover
4. Power cable
5. Video cable
6. Multi-function button
7. HD-SDI



INSTALLATION AND CONNECTION



OSD

EXPOSURE

Electronic Shutter Auto
    Auto, 1/25 ~ 1/50,000
AGC Middle
    Low / Middle / High
Auto Slow Shutter
    Off
    Auto
        x2-x30
Image Brightness 44
    0 ~ 100
Digital Wide Range
    Off / Low / Middle / High
Transparent
    Off / Low / Middle / High
BLC
    Off
    BLC
        Gain at backlight area/ Area / Preset / Return
    HLC
        Area for choose
        Area for display
        Level / Mode / Black mask / Preset / Return
    Return

LENS

DC Lens
    Indoor / Outdoor
Video Lens
Manual Lens

WHITE BALANCE

AWB
Manual White Balance
    Blue 50 0~100
    Red 50 0~100
Outdoor
Indoor
AWC-SET

D/N

Auto Switch
    Delay 5sec
        0~60
    D-N (AGC) 80
        0~100
    N-D (AGC) 50
        0~100
    Return
Color Mode
B&W Mode
    Color Sync
        On/Off
    Smart IR
        Level 8 0~15
        Area
        Return

IR LED
On/Off
IR PWM 0
0~100
Return
Outer Switch

NR

2D Noise Reduction
On/Off
3D Noise Reduction
On: S-Level 0
0~100
On: E-Level 0
0~100
Off
Level 80
0~100
Smart Noise Reduction
On/Off
Return

FUNCTIONS

Camera Headline
On/Off
Digital Effect
Image Freeze
On/Off
Mirror
Off / Horizonal Mirror / Vertical Mirror / Rotation
Digital Zoom
Off
On
PIP: On / Off
Digital Zoom: x2~x64
Flip Horizontal & Vertical
Preset
Return
Negative Film
On/Off
Return
Motion Detection
Off
On
Area of choice: Area 1~3
Area for display: On/Off
Sensitivity 30: 0~60
Inspection On/Off
Preset
Return
Privacy Mask
Off
On
Area of choice: Area 1~8
Area for display: On/Off
Color 1~16
Preset
Return
Language
CHN1 (Traditional Chinese character)
CHN2 (Simplified Chinese character)
ENG (English)
Spot Repair
Real-time Dead Pixels Repair

On/Off
Level 30
0~60
Static Dead Pixels Repair
On/Off
Start
Level 25
0~60
Auto Slow Shutter x4
X2~x30
Return
RS485
Camera ID
0~255
ID Display
On/Off
Baud Rate
2400, 4800, 9600, 19200, 38400
Return
Version
120320
Return

IMAGE ADJUSTMENT

Sharpness
Sharpness
On/Off
Level 60
0~100
Resolution
On/Off
Return
Monitor
LCD
Gamma: Auto
B-GAIN 60: 0~100
R-GAIN 60: 0~100
Return
CRT
Black Level 0: -30~30
B-GAIN 50: 0~100
R-GAIN 50: 0~100
Return
Menu
Font Color: 8 variable
Font Outline: On/Off
Return
Edge Illumination Compensation
On/Off
NTSC/PAL
PAL/NTSC
Return

RESET

Factory Settings
Reset
Return

EXIT

CONDITIONS & TESTING

1) Working Condition
Temperature: -10°C~50°C (Recommendation: - 5°C ~ 40°C)
Humidity: 10 %~85 %

2) Storage Condition
Temperature: -20°C~60°C
Humidity: 0 %~ 90 %

3) High Temperature storage Test
Leaving the packed product at Temperature of 60°C for 72 Hours, then leaving it at Normal Temperature for 8 Hours, after doing that, there should be no Problem in Performance.

4) Low Temperature storage Test
Leaving the packed product at Temperature of -20°C for 72 Hours, then leaving it at Normal Temperature for 8 Hours, after doing that, there should be no Problem in Performance.

TROUBLESHOOTING

Item	Problem	Solution
1	No picture or unstable	Check the connection of video line or power line
2	The image is so blurred	1. Checking is there something dirt on the lens, then use customized lens paper or cotton buds with alcohol drenched to clean. 2. Check the focus length and OSD settings.
3	The image is so dim	Adjust the CNT of monitor and iris.
4	No motion detection frame and privacy shaded frame	Check the option button, whether it's ON or OFF. Or check the menu parameters.
5	Screen color cast in the special environment	Adjust WEB mode or direction.
6	The screen glittering	The camera might face to the sun, TV set or computer.
7	Functions are disorder and could not adjust	Restore default settings.
8	The camera works abnormal; the surface over-heat; has peculiar smell, smoke etc.	Please cut off the power supply immediately. Secondly, check the connection of power supply. Then send the camera to professionals for maintenance.

SPECIFICATION

Model	HDVDX42-4AVF
Image Sensor	HD Sony MX-122 1/2.8" progressive scan CMOS
Total Pixel	2010(H) x 1108(V) = 2,227,080
Effective Pixel	1944(H) x 1092(V) = 2,122,848
Resolution	Digital: 1080 (30 frame), 720 (60 frame) Max: 1100TVL (1080 frame)
Min. Illumination	Color:1.0 Lux @ F1.2, B&W: 0.5 Lux Color DSS: 0.002 Lux, B&W: 0.0008 Lux
Video output	HD SDI, Analog: NTSC/PAL CVBS (w/o WDR)
IR LED	42 IR LED
IR Distance	Up to 100ft / 30m
Lens	3.3~12mm Auto Iris Vari-focal Lens
Lens Type	DC/VD Manual
S/N Ratio	> 50dB (AGC Off)
AGC	Off / Low / Middle / High
Shutter Speed	Auto / Manual (1/50(60) ~ 1/60,000sec)
Digital Slow Shutter	Off / On (x64)
Brightness	0~100 optional
WDR/BLC	Off / BLC / WDR / Transparent (fog-through)
Auto Electronic Control Exposure	Off / On
Day & Night	Auto/Manual Color/B&W Outer Control
White Balance	Auto / Manual / Indoor / Outdoor
DNR (Digital Noise Reduction)	1~100 optional
Mirror	Off / On
Sharpness	0~100 optional
BLC	Off / On
Digital Zoom	x2 ~ x64
Privacy Mask	8 area
Motion Detection	Off / On 3 Area
Language	Chinese / English
Power Source	12V DC
Power Consumption	600mA max
Power Input	Connector
Operation Temperature	-4°F ~ 140°F / -20°C ~ 60°C
Dimensions	Ø5.8 x 4.8(H) inches / Ø147.4 x 121.9(H) mm
Net Weight	1.64 lbs / 745 g

* Specifications are subject to change without notice.

Copyright © 2013. All Rights Reserved.